

Owner's Manual

MA-1500

MONAURAL POWER AMPLIFIER

Phasemation

Thank you for purchasing Phasemation product.
Read your Owner’s Manual thoroughly for proper operation before starting to use your equipment.
Please keep your Owner’s Manual with caution.




Table of Contents











Safety Instructions	4
Usage Cautions	5
Care of Equipment	5
Names and Functions	6
Mounting or Removing the Vacuum Tubes	7, 8
Connections	9
Trouble Shooting Guide	10
User Support	11
Specifications	11







Safety Instructions

Before starting to use

In this owner's manual and on the product, various pictures are used to show our customers how to use Phasemation MA-1500 safely and properly in order to avoid the loss of customer's assets and to protect our customers from harm.

Indication Mark Ex. / Inside the diagrams or nearby shows in detail what is prohibited.		
 <p>Electric Shock Caution</p> <p>△ This sign states that there are contents that urges caution (including danger/warning).</p>	 <p>Disassembly Prohibited</p> <p>⊘ This sign states prohibited action.</p>	 <p>Pull out the power plug from the outlet</p> <p>● This sign states that there are contents that forces or instructs action.</p>

 WARNINGS If this indication is ignored and handled incorrectly, these contents show that there is a possibility that can cause death or severe injury of a person.		
 	<p>■ If anomalies occur by any chance, quickly pull out the plug.</p>	<ul style="list-style-type: none"> ● If any smoke, strange smells or abnormal sounds come out. ● If dropped or damaged. ● If water, metal, or any combustible material goes inside the equipment. If left unhandled, it may cause fire or electric shock. Immediately turn this unit and other connected devices power off and pull out the power plug from the outlet and then contact the dealer after safety is confirmed. Repairs done by customers are dangerous. Therefore do not do it.
	<p>■ Never remodel the equipment.</p>	<ul style="list-style-type: none"> ● Do not disassemble the equipment or remodel it. Inside is a part having high voltage and could result in fire or electric shock.
 	<p>■ Never install the equipment near water.</p>	<ul style="list-style-type: none"> ● Do not use the equipment in the bathroom. This can result in a risk of fire or electric shock. ● The equipment is designed for using indoors. Do not expose the equipment to water. This can result in a risk of failures, fire, and electric shock.
	<p>■ Never put an object filled with water on the equipment.</p>	<ul style="list-style-type: none"> ● Do not put a vase, flower pot, glass or any object filled with skin lotion, cup, chemical, water, or small metal object on the equipment. In case the liquids are spilled or fall inside the equipment, this can result in a risk of fire or electric shock.
	<p>■ Never put an object inside the equipment.</p>	<ul style="list-style-type: none"> ● If a foreign object has fallen inside the equipment, turn the amplifier's power switch off and contact the dealer. To keep using the equipment can result in a risk of fire or electric shock.
 	<p>■ While using or right after using, do not touch the hot areas.</p>	<ul style="list-style-type: none"> ● While using or right after using, do not touch near the vacuum tubes or the top surface. It is hot in order to radiate the device's heat and could cause burning if it is touched.

 CAUTION If this indication is ignored and handled incorrectly, these contents show that there is a possibility that people can get injured or objects can get damaged.		
	<p>■ Do not place on top of unstable places.</p>	<ul style="list-style-type: none"> ● Do not place on top of unstable places such as wobbling stands or tilted areas. It can fall or drop on the ground and cause injury.
	<p>■ Do not set anything heavy on top.</p>	<ul style="list-style-type: none"> ● Do not set anything heavy or any big object that sticks out of the edge of this unit. It can lose its balance and fall or drop on the ground, and cause injury.
	<p>■ When moving it</p>	<ul style="list-style-type: none"> ● When moving it, turn the power switch off of connected devices and disconnect cords and then move it. If not, the cords could get damaged and can cause fire or electric shock.
	<p>■ Places which are not suitable for installation</p>	<ul style="list-style-type: none"> ● Places where it comes into contact with soot or steam such as kitchen counters and humidifiers. ● Places where there is too much humidity or dust. ● Hot areas such as near heaters or places where it comes into contact with direct sunlight. It may cause fire or electric shock.
	<p>■ Connection</p>	<ul style="list-style-type: none"> ● When connecting with other audio equipments, read the manual of the equipments, turn the power switch off, and connect according to the instructions.

Usage Cautions

Installation place

In order to use the equipment for a long time, follow the instructions shown in below:

- Do not install this equipment near a heat source such as direct sun light, a stove and so on.
- Do not use this equipment at a poorly-ventilated, humid or dusty place.
- Do not install this equipment at an unstable place such as a slope or a vibrating place.
- Do not install this equipment near the window where the equipment can be exposed to rain.
- Do not install this equipment somewhere that can come in contact with soot or steam such as a kitchen counter or humidifier.
- Avoid using this equipment on an equipment generating heat such as an amplifier.
- Do not install this equipment near a power supply transformer or a motor of another equipment.

Note

Avoid covering the equipment with a cloth or installing it in enclosed space because radiation and air convection from the chassis surface can be hindered.

To prevent external sound pressure and grit / dust from entering the equipment, inspiratory/exhaust ports to radiate the heat are not arranged against the equipment consciously. Radiating the heat from the equipment is done by cooling with air convection in the chassis and with radiation and air convection from the chassis having high thermal conductivity.

Useable AC power supply voltage and frequencies

- AC 230V power supply must be supplied.
- The equipment operates normally in both areas of 50Hz and 60Hz power supply frequencies.

Handling AC power cable

- Do not touch the AC power cable with wet hands.
- Do not pull the cable strongly or bend the cable. The cable can be damaged and can result in a risk of fire or electric shock.
- Use the AC power cable of the accessories.

Repair

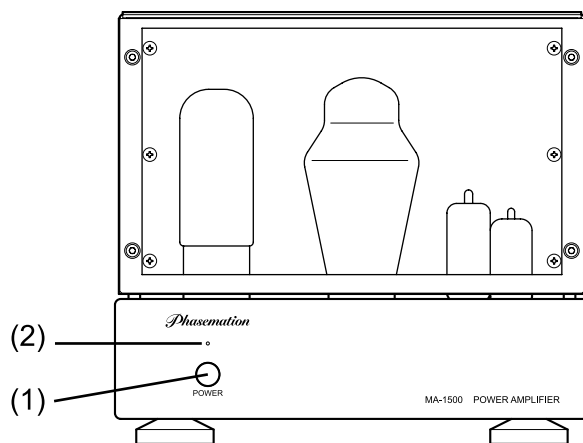
- In case of the equipment failure consult the dealer.

Care of Equipment

- ◎ If the equipment is covered with dust or dirt clean it with a soft cloth.
- ◎ If the equipment is covered with heavy dust put a very thin mild detergent on a soft cloth. Wring the cloth and wipe off the dust and dirt. Then clean with a dry soft cloth.
- ◎ Never use chemical agents such as thinner, naphtha or alcohol when cleaning it. If any of them is attached to the equipment, the silk printing can be flaked or the surface can lose metal luster.

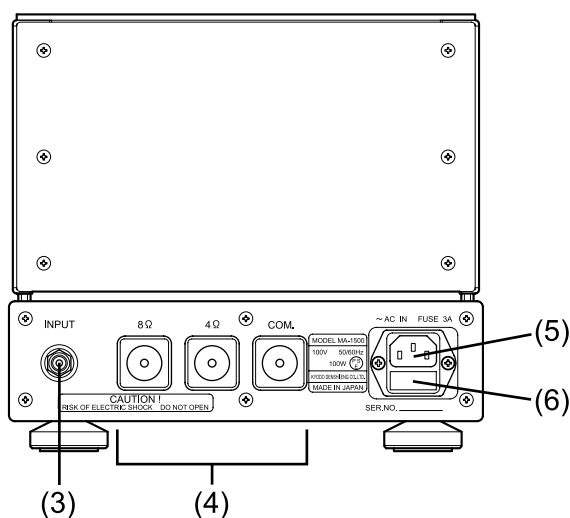
Names and Functions

Front Panel



- (1) POWER switch The power supply can be turned on or off by pressing the POWER switch.
After pressing the POWER switch, (2) POWER indicator lights up.
- (2) POWER indicator The POWER indicator lights up blue when the power supply is supplied.

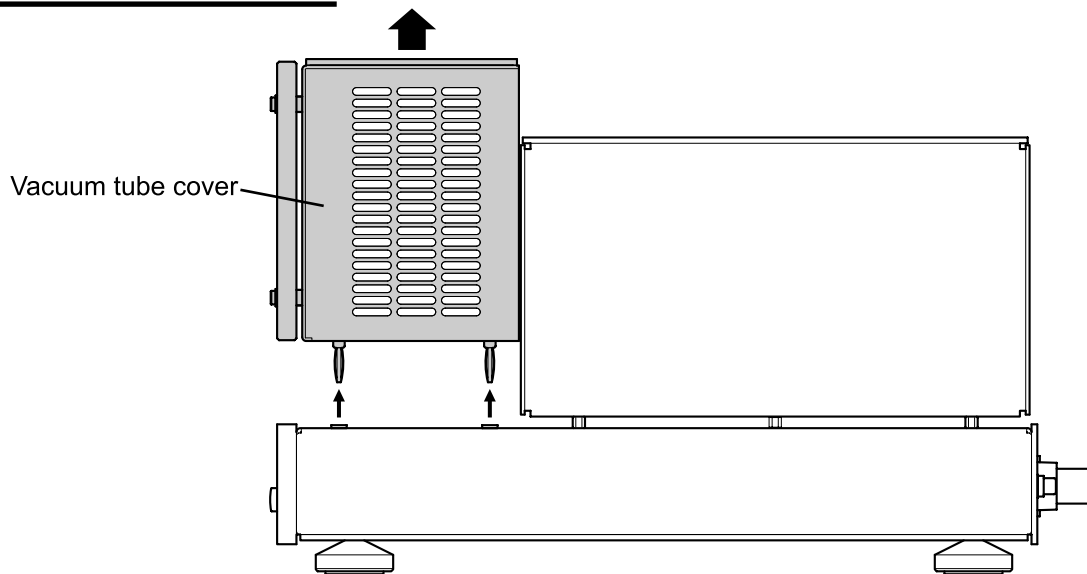
Rear Panel



- (3) Input terminal Connect an output of a pre-amplifier or attenuator.
- (4) Output terminals Connect a speaker.
These terminals can be connected to a 4-ohm speaker or an 8-ohm speaker.
- (5) AC power inlet Connect the AC power cable of accessories between this terminal and an AC outlet.
- (6) Fuse There is a 5.2x20mm, AC250, 3A glass tube fuse inside.
If it breaks and needs to be replaced, please contact the dealer.

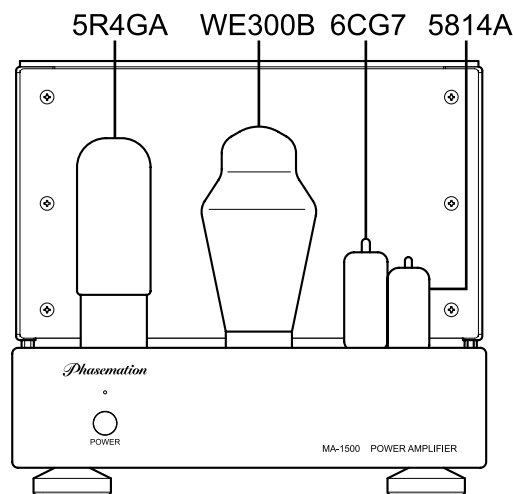
Mounting or Removing the Vacuum Tubes

Removing the cover

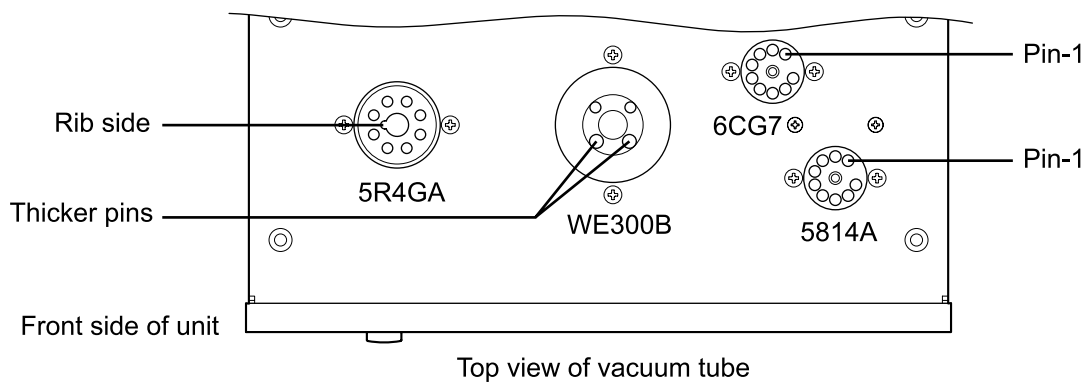


- (1) Remove the vacuum tube cover straight up.

Mounting the vacuum tubes



- (1) The vacuum tubes are arranged in order of “5R4GA”, “WE300B”, “6CG7”, “5814A” from the left.
- (2) Because the vacuum tubes have respective directional properties, mount them in the correct direction shown as follows.



- (3) After mounting all vacuum tubes, attach the vacuum tube cover.

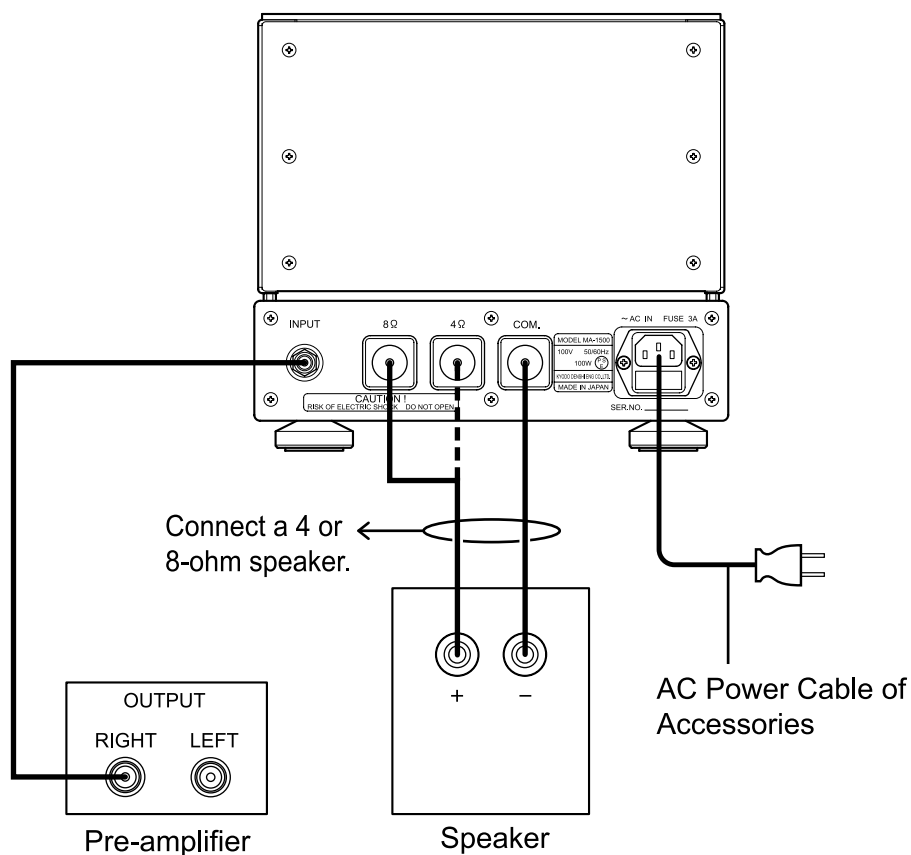
Removing the vacuum tubes

- (1) Remove the vacuum tube cover straight up.
- (2) When removing the vacuum tube, you must hold the resin portion at the root of the vacuum tube and pull it out. If holding the glass portion, the vacuum tube may break.

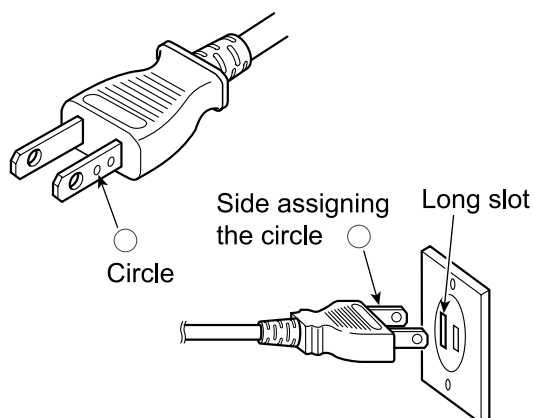
Cautions for handling the vacuum tubes

- Since the vacuum tubes are made of glass, they can be broken easily so they should be handled carefully.
- After turning the power to OFF and waiting until the vacuum tubes cool well, you can remove them or mount them. If done before the vacuum tubes cool, this can result in a risk of failure, electric shock, or burns.
- We measured the performance of the vacuum tubes of accessories and selected good tubes. In case a vacuum tube except our ones of accessories is used, this can result in a risk of performance deterioration or failure. The vacuum tubes of accessories should be used.
- After mounting the vacuum tubes, the cover must be placed back. For the vacuum tubes, a high voltage is applied in the operation and then they turn to a high temperature. In case you touch them or some object hits them, these can result in a risk of burnt injury, electric shock, or fire.
- When an abnormal state occurs for the vacuum tubes, please contact your dealer.

Connections



Plugging the plug of AC power cable in an outlet



A circle is assigned on one side of the plug of the AC power cable so that better sound quality is reproduced by matching the power supply polarity with another equipment.

This polarity may be different because of house wiring for outlet or because of the power supply condition; however, generally the side assigning the circle should be inserted to the long slot of the outlet.

Trouble Shooting Guide

In case the equipment does not operate properly, check out the followings.

If it does not operate properly even after checking the advised points, disconnect the AC plug from the outlet and then contact the dealer.

Trouble	Causes	Measures
The power is not supplied.	● The plug of AC power cable is not plugged in completely.	● Insert the plug of the AC cable into an outlet firmly. ● Firmly insert the outlet of the AC power cable into the AC inlet of the power equipment.
The sound is not heard.	● The audio wires are not plugged in completely.	● Insert the audio wires completely.
Hum noise is heard.	● The audio wires are not plugged in completely. ● A power supply transformer or motor in an other equipment is installed near this equipment.	● Insert the audio wires completely. ● Place this equipment apart from the power supply transformer or motor of other equipments.
Sound is not heard immediately after turning the power on.	● Sound is not outputted until the circuits come to stable operation.	● Please wait about 30 seconds.

User Support

As for the unclear matters with regards to the after service, please contact the dealer.

Specifications

Product	300B Single-ended Monaural Power Amplifier
Maximum output	10W / 8 ohms (T.H.D. 5 %)
Gain	26 dB
Frequency characteristics	10 Hz to 40 kHz (+0, -3 dB)
Input terminal	Unbalanced input terminal (RCA terminal)
Output terminals	For speaker (4 ohms or 8 ohms)
Power consumption	100 W
Max. dimensions (mm)	245 (W) x 226 (H) x 427 (D)
Weight	16 kg

Accessories: AC power cable (x1)
Vacuum tube: PSVANE WE300B (x1)
6CG7 (x1)
5814A (x1)
5R4GA (x1)

- The appearance and specifications of this equipment are subject to change without notice in order to improve it.

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Phasemation is the original audio brand of Kyodo Denshi Engineering Co., Ltd.